

## **Analytical Laboratory**

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

### **Order Summary Report**

Order Number:	J13110266			
Project Name:	NPDES - QUARTERLY			
Customer Name(s):	Michael Byrd			
Customer Address:	11021 BROWER RD.			
	NODTH DEND OH 45050			
	NORTH BEND, OH 45052			
Lab Contact:	Mary Ann Ogle	Phone: 980-875-5274		
Report Authorized By: (Signature)		Date:	12/11/2013	
,	Mary Ann Ogle			

#### **Program Comments:**

Please contact the Program Manager (Mary Ann Ogle) with any questions regarding this report.

#### Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

#### Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

### Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

# Sample ID's & Descriptions:

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		Collection		
Sample ID	Plant/Station	Date and Time	Collected By	Sample Description
2013027953	MIAMI-FORT	03-Dec-13 8:45 AM	Mark Harper	OUTFALL 002
2013027954	MIAMI-FORT	03-Dec-13 9:05 AM	Mark Harper	OUTFALL 608
2 Total Samples				

### **Technical Validation Review**

### Checklist:

	COC and .pdf report are in agreement with sample and analyses (compliance programs and procedure	<b>y</b> Yes	☐ No	
	All Results are less than the laboratory reporting lim	Yes	<b>✓</b> No	
	All laboratory QA/QC requirements are acceptable.		<b>y</b> Yes	□ No
Report S	Sections Included:			
<b>✓</b> J	ob Summary Report	☐ Sub-contr	acted Laborat	ory Results
<b>✓</b> S	ample Identification	Custome	Specific Data	Sheets, Reports, & Documentation
<b>✓</b> T	echnical Validation of Data Package	<b>✓</b> Custome	Database En	tries
<b>✓</b> A	nalytical Laboratory Certificate of Analysis	✓ Chain of	Custody	
□ A	nalytical Laboratory QC Report	☐ Electronic	Data Delivera	able (EDD) Sent Separatel

Reviewed By: DBA Account Date: 12/11/2013

# **Certificate of Laboratory Analysis**

This report shall not be reproduced, except in full.

### Order # J13110266

Site: OUTFALL 002 Sample #: 2013027953

Collection Date: 03-Dec-13 8:45 AM Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst	
AMMONIA (COLORIMETRIC)									
Ammonia (Colorimetric)	< 0.02	mg-N/L		0.02	1	EPA 350.1	12/05/2013 13:43	TLINN	
TOTAL KJELDAHL NITROGEN (C	OLORIMETRIC	<u>)</u>							
Total Kjeldahl Nitrogen (Colorimetric)	0.84	mg-N/L		0.15	1	EPA 351.2	12/10/2013 11:32	BGN9034	
TOTAL DISSOLVED SOLIDS									
TDS	890	mg/L		25	1	SM2540C	12/09/2013 11:21	DSBAKE1	

Site: OUTFALL 608 Sample #: 2013027954

Collection Date: 03-Dec-13 9:05 AM Matrix: NPDES

Units	Qualifiers R	DL DI	F Method	Analysis Date/Time	Analyst
				,, ,	,
mg/L (CaCO3)	C	).1 1	SM2320B	12/06/2013 10:07	TJA7067
mg/L	1	00 100	00 EPA 300.0	12/05/2013 17:37	JAHERMA
mg/L		10 10	0 EPA 300.0	12/05/2013 17:37	JAHERMA
mg/L	2	00 200	00 EPA 300.0	12/05/2013 17:37	JAHERMA
mg/L	2	5 50	EPA 200.7	12/10/2013 13:40	MHH7131
mg/L	0	.01 1	EPA 200.7	12/10/2013 13:40	MHH7131
mg/L	0.0	005 1	EPA 200.7	12/10/2013 13:40	MHH7131
ug/L	2	20 1	EPA 200.8	12/06/2013 12:19	DJSULL1
ug/L	2	20 1	EPA 200.8	12/06/2013 12:19	DJSULL1
ug/L	2	20 1	EPA 200.8	12/06/2013 12:19	DJSULL1
ug/L	2	20 1	EPA 200.8	12/06/2013 12:19	DJSULL1
ug/L	2	20 1	EPA 200.8	12/06/2013 12:19	DJSULL1
ug/L	2	20 1	EPA 200.8	12/06/2013 12:19	DJSULL1
ug/L	2	20 1	EPA 200.8	12/06/2013 12:19	DJSULL1
mg/L	2	50 1	SM2540C	12/09/2013 11:21	DSBAKE1
mg/L		5 1	SM2540D	12/09/2013 09:13	DSBAKE1
	mg/L (CaCO3)  mg/L mg/L mg/L mg/L mg/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L u	mg/L (CaCO3)  mg/L 1 mg/L 1 mg/L 2 mg/L 2 mg/L 0.0  mg/L 0.0  ug/L 2 ug/L 2 ug/L 2 ug/L 2 ug/L 2 ug/L 2 mg/L 2	mg/L (CaCO3)  mg/L 100 100 mg/L 10 100 mg/L 200 200 mg/L 200 1 mg/L 0.005 1 mg/L 20 1 ug/L 20 ug/L 20 1 ug/L 20 ug/L	mg/L (CaCO3)         0.1         1         SM2320B           mg/L (CaCO3)         100         1000         EPA 300.0           mg/L 10         100         EPA 300.0           mg/L 200         2000         EPA 300.0           mg/L 25         50         EPA 200.7           mg/L 0.01         1         EPA 200.7           mg/L 0.005         1         EPA 200.7           ug/L 20         1         EPA 200.8           ug/L 20         1         EPA 200.8	mg/L (CaCO3)         0.1         1         SM2320B         12/06/2013 10:07           mg/L (CaCO3)         100         1000         EPA 300.0         12/05/2013 17:37           mg/L 10         100         EPA 300.0         12/05/2013 17:37           mg/L 200         2000         EPA 300.0         12/05/2013 17:37           mg/L 2.5         50         EPA 200.7         12/10/2013 13:40           mg/L 0.01         1         EPA 200.7         12/10/2013 13:40           mg/L 0.005         1         EPA 200.7         12/10/2013 13:40           ug/L 20         1         EPA 200.8         12/06/2013 12:19           ug/L 20         1         EPA 200.8         12/06/2013 12:19

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM **Duke Energy Analytical Laboratory Analytical Laboratory Use Only** Page 5 of 5 **Duke Energy**<sub>ss,</sub> LIMS # Sample Class OH X <sup>19</sup>Page \_1 \_ of \_1\_ Samples Originating **NPDES** 13110266 DISTRIBUTION Mail Code MGO3A2 (Building 7405) lagers Ferry Rd 13339 From ORIGINAL to LAB. Huntersville, Logged By **COPY to CLIENT** N. C. 28078 (704) 875-5245 12/4/13 Fax: (704) 875-4349 SAMPLE PROGRAM Vendor 2)Phone No: NPDES X **MIAMI-FORT NPDES Quarterly** (Week 1 - Dec 3, 2013) Cooler Temp (C) PO# 4)Fax No: Michael Byrd, Tara Thomas, Matthew Hoyt 15Preserv.:1=HCL 2=H2SO4 3=HNO3 4 4,2 4 4=lce 5=None 5)Business Unit: 6)Process: 7)Resp. Center To: MR# 16 Analyses Required Ba, Zn Mn, As, Bo 9)Activity ID: 10)Mail Code: Customer to complete all appropriate non-shaded areas. 504 Alkalinity NH3 Fe. <sup>14</sup>Collection Information "Comp. CI, F, 12Chem TKN, B, Fe TDS TSS <sup>13</sup>Sample Description or ID Desktop No. Date X Outfall 002 1 Outfall 608 X 1 1 1 1 1

1)Project Name

3)Client

8)Project ID:

LAB USE ONLY

	gn & date below - fill out from left to right.			
1) Relinquished By  Work Hayer	12/3/13 0930	2) Accepted By	Date/Time /2/4//3 /33	22Requested Turnaround
3) Relinquished By	Date/Time	4) Accepted By		14 Days
5)Relinquished By	Date/Fime	6)Accepted By:	Date/Time	*7 Days
7)Relinquished By	Date/Time	8)Accepted By:	Date/Time	-48 Hr
9)Seal/Jocked By	12/3/13 0930	10) Seal/Cock Opened By	12/42 1335	*Other* Add. Cost Will Apply
11}Seal/Locked By	Date/Time	12)Seal/Lock Opened By	Date/Time	e inc